

August 7, 2008

Northrop-Grumman/Bethpage, New York

BACKGROUND

Operational History -

- Facility consisted of two plots. 105 acres of the land was owned by the Navy and the remaining 530 acres was owned by Grumman. Facility was a RCRA regulated treatment and storage facility, and both Grumman and the Navy signed the operating permit.
- Facility's operations have been discontinued. Northrop-Grumman became the owner of the Grumman plot in the mid-1990s.

Off-site Groundwater Plume -

- Remediation completed and/or a remediation system is in place for the off-site groundwater plume (known as OU-2). Off-site plume has reached the well heads of several water districts. The Navy has funded treatment systems for several water supplies. Vapor intrusion into residences is not anticipated for OU-2 because the elevated concentrations of volatile compounds are in the deep aquifer. The shallow aquifer is clean.

Bethpage Park -

- Bethpage Park (OU-3) is adjacent to the Northrop-Grumman portion of the facility, and allegedly was used for sludge drying and fire control training. Recent groundwater samples have indicated contamination at the fence line of OU-3. As a result of recent fieldwork (indoor air, outdoor air, and sub slab soil vapor sampling), the NYSDEC and the New York State Department of Health (NYSDOH) have determined that soil gas has not migrated to Bethpage High School or the homes to the south of Bethpage Park, and that no further sampling would be needed for these off-site areas. Northrop-Grumman will continue to operate its soil vapor extraction system at the southern edge of the Park to remove and control the source of contamination.

Site 1 -

- Located at the east of the site. Contains a concrete storage pad and abandoned cesspool leach field. Also was used as a storage area for transformers.
- Site 1 is northwest of Bethpage Park. There is no connection between the contamination from these two areas.
- AS/SVE system constructed in 1998 to address VOCs in site soils. Ran from August 1998 to March 2002, (except for the winter months).
- Post- operational soil boring program conducted in 2002, indicated elevated VOCs found in 6 of the 41 borings, at depths from 10 to 64 feet



- below ground surface.
- NYSDEC notified Navy of potential for soil vapor intrusion. Navy had wanted final guidance in place before agreeing to sample for soil vapor intrusion. NYSDOH issued final regulatory guidance for soil vapor intrusion in October 2006.
- In January 2008, the Navy conducted preliminary sampling for the areas just east of Site 1, to determine if any soil gas may have migrated from Site 1 toward the homes on 11th street and beyond toward 10th Street. Sampling consisted of soil vapor sampling at the fence of the property. The preliminary results from this sampling (April 2008 report) are that there is potential for off-site migration of soil gas.

ENVIRONMENTAL INDICATORS

CA725 STATUS –

- The remaining outstanding item is the potential for soil vapor intrusion off-site into a residential area that is downgradient of Site 1.

CA725 - What needs to be done:

- For the potential Site 1 soil gas contamination - The Navy and TetraTech are tasked with taking additional samples in the vicinity of Site 1.

CA725 – Schedule for Site 1:

- In July 2008, the Navy's consultant (TetraTech) submitted a work plan for the additional sampling. The Navy and its consultant plan to take samples in the Autumn of 2008, pending NYSDEC's and NYSDOH's review and approval of the work plan.
- If sampling results indicate soil gas contamination, it may be necessary to sample within the homes. In-house sampling would be done during the heating season (December 2008 to March 2009).
- If homes are found to be contaminated by soil vapor intrusion, remedial systems would be installed.

CA750 STATUS - The remaining outstanding item is the off-site contaminated groundwater that is immediately south of Bethpage Park. DEC is in the process of delineating this off-site plume. This investigation and remediation of the plume is not anticipated until after the soil vapor intrusion issue is resolved. (This is plume is separate from the plume discussed as OU-2, above, which is under control.)